

Fig. 1

FIG. 2A:  
RF Input

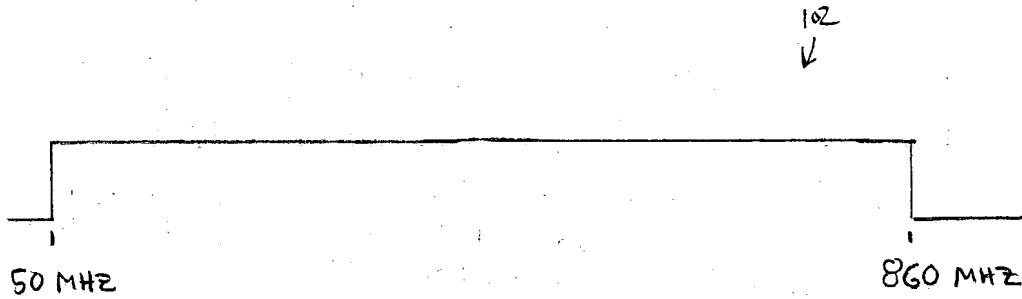


FIG. 2B  
I output

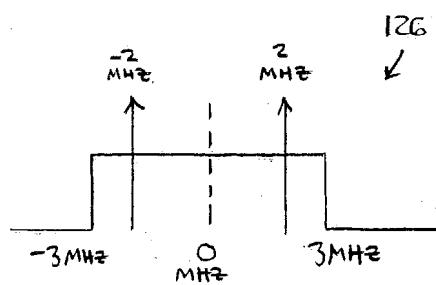


FIG. 2C  
Q output

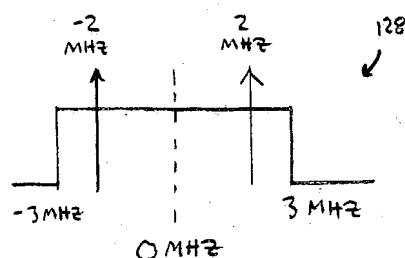


FIG. 2D  
I output  
(blanking)

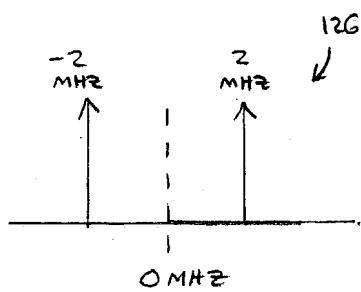
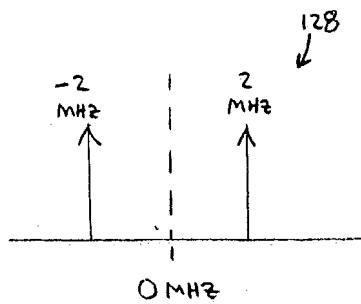
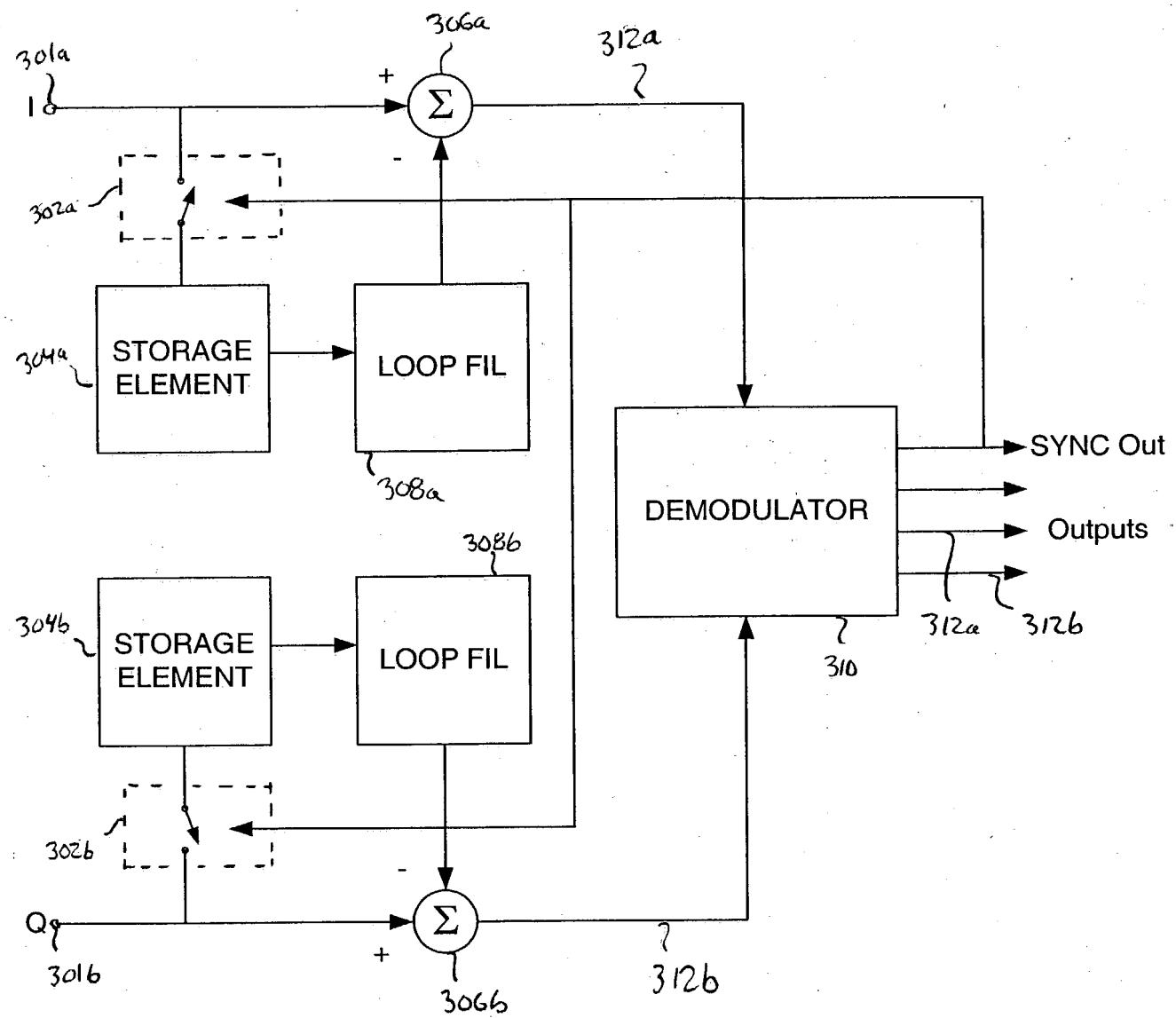


FIG. 2E  
Q output  
(blanking)





**FIG. 3**

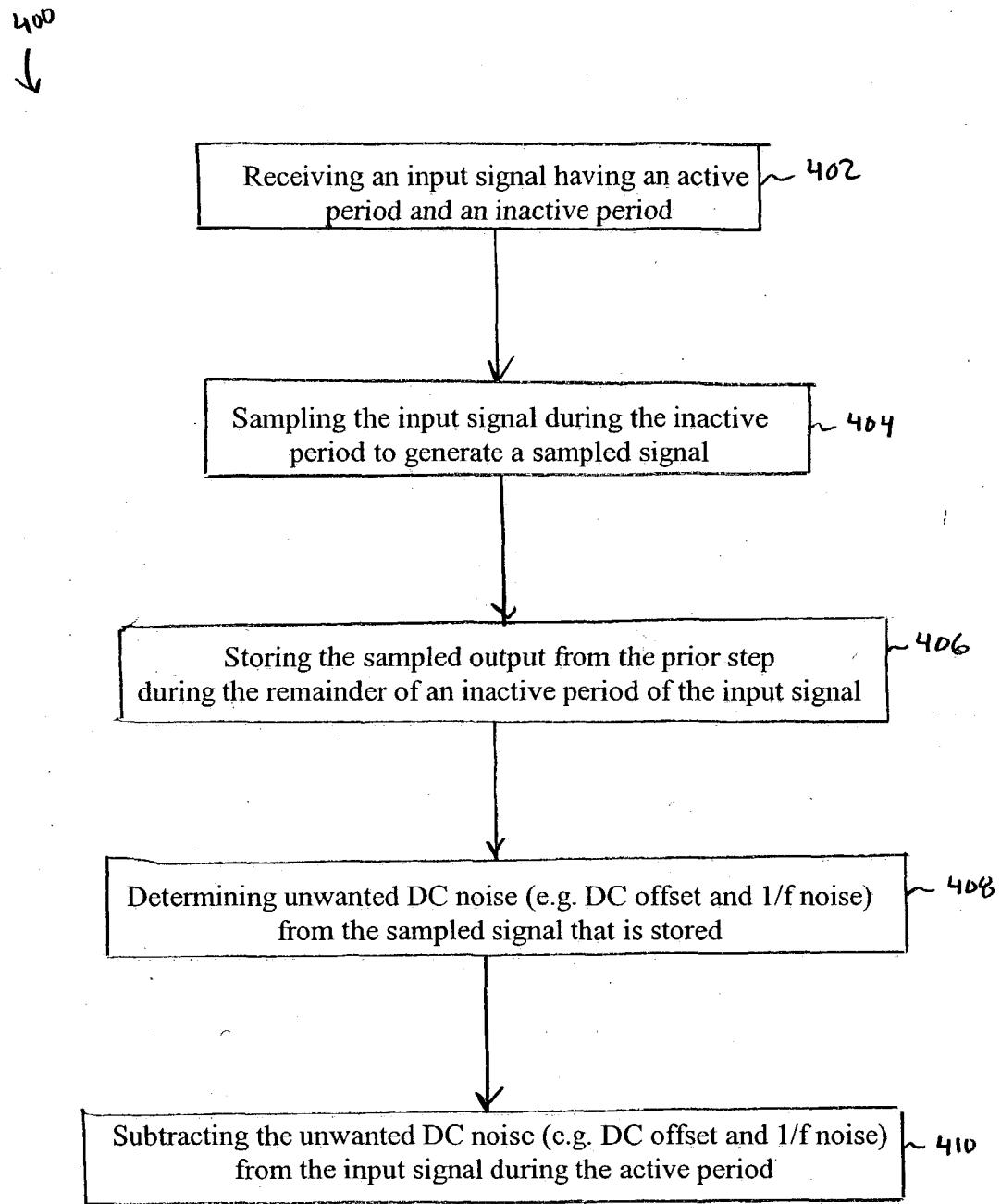


FIG. 4

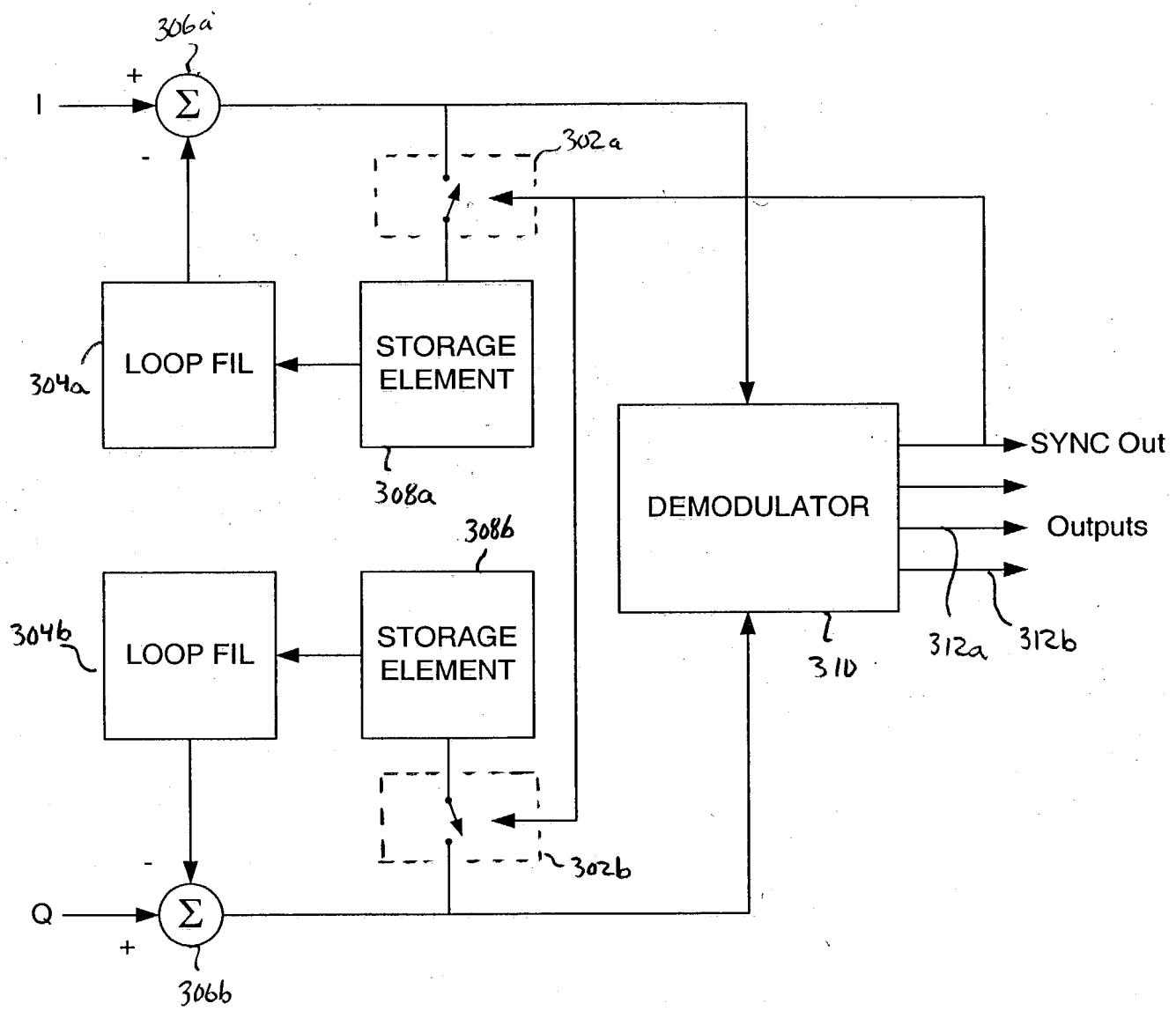


FIG. 5

600



Receiving an RF input signal having a plurality of channels (e.g. TV channels), where each channel includes an active period and an inactive period

602

Generate a quadrature LO signal having a frequency equal to a particular channel in the RF input signal for down-conversion

604

Down-convert the selected channel in the RF input signal to baseband using the quadrature LO signal

606

Determine the unwanted DC noise in the down-converted channel during an inactive period of the channel

608

Storing and filtering the unwanted DC noise during the remainder of the inactive period of the channel

610

Compensating the down-converted channel for the unwanted DC noise during an active period of the channel

612

FIG. 6.